

• Serial Number: 09/942,336A

ENTERED

CRF Processing Date:

Edited by:

Verified by:

3/4/2002

(STIC staff)

 Changed a file from non-ASCII to ASCII Changed the margins in cases where the sequence text was "wrapped" down to the next line. Edited a format error in the Current Application Data section, specifically: Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_

TECH CENTER 1600/2900

 Added the mandatory heading and subheadings for "Current Application Data". Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer. Changed the spelling of a mandatory field (the headings or subheadings), specifically: Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place. Inserted colons after headings/subheadings. Headings edited included: Deleted extra, invalid, headings used by an applicant, specifically: Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  page numbers throughout text;  other invalid text, such as \_\_\_\_\_ Inserted mandatory headings, specifically: Corrected an obvious error in the response, specifically: Edited identifiers where upper case is used but lower case is required, or vice versa. Corrected an error in the Number of Sequences field, specifically: A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted. Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_ Other:

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\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

#5



1645

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/942,336A

DATE: 02/04/2002

TIME: 20:43:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02042002\I942336A.raw

3 <110> APPLICANT: Ashizawa, Tetsuo  
 4 Matsuura, Tohru  
 6 <120> TITLE OF INVENTION: DNA Test for SCA-10  
 8 <130> FILE REFERENCE: P02039US1/10023139  
 10 <140> CURRENT APPLICATION NUMBER: US 09/942,336A  
 11 <141> CURRENT FILING DATE: 2001-08-29  
 13 <150> PRIOR APPLICATION NUMBER: US 60/229,406  
 14 <151> PRIOR FILING DATE: 2000-08-31  
 16 <160> NUMBER OF SEQ ID NOS: 13  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 475  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: HUMAN  
 25 <400> SEQUENCE: 1  
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 28 1 5 10 15  
 31 Pro Ala Pro Ile Gln Asp Leu Glu Ala Leu Arg Ala Leu Thr Ala Leu  
 32 20 25 30  
 35 Phe Lys Glu Gln Arg Asn Arg Glu Thr Ala Pro Arg Thr Ile Phe Gln  
 36 35 40 45  
 39 Arg Val Leu Asp Ile Leu Lys Lys Ser Ser His Ala Val Glu Leu Ala  
 40 50 55 60  
 43 Cys Arg Asp Pro Ser Gln Val Glu Asn Leu Ala Ser Ser Leu Gln Leu  
 44 65 70 75 80  
 47 Ile Thr Glu Cys Phe Arg Cys Leu Arg Asn Ala Cys Ile Glu Cys Ser  
 48 85 90 95  
 51 Val Asn Gln Asn Ser Ile Arg Asn Leu Asp Thr Ile Gly Val Ala Val  
 52 100 105 110  
 55 Asp Leu Ile Leu Leu Phe Arg Glu Leu Arg Val Glu Gln Glu Ser Leu  
 56 115 120 125  
 59 Leu Thr Ala Phe Arg Cys Gly Leu Gln Phe Leu Gly Asn Ile Ala Ser  
 60 130 135 140  
 63 Arg Asn Glu Asp Ser Gln Ser Ile Val Trp Val His Ala Phe Pro Glu  
 64 145 150 155 160  
 67 Leu Phe Leu Ser Cys Leu Asn His Pro Asp Lys Lys Ile Val Ala Tyr  
 68 165 170 175  
 71 Ser Ser Met Ile Leu Phe Thr Ser Leu Asn His Glu Arg Met Lys Glu  
 72 180 185 190  
 75 Leu Glu Glu Asn Leu Asn Ile Ala Ile Asp Val Ile Asp Ala Tyr Gln  
 76 195 200 205  
 79 Lys His Pro Glu Ser Glu Trp Pro Phe Leu Ile Ile Thr Asp Leu Phe  
 80 210 215 220

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,336A

DATE: 02/04/2002  
TIME: 20:43:14

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\02042002\I942336A.raw

83 Leu Lys Ser Pro Glu Leu Val Gln Ala Met Phe Pro Lys Leu Asn Asn  
84 225 230 235 240  
87 Gln Glu Arg Val Thr Leu Leu Asp Leu Met Ile Ala Lys Ile Thr Ser  
88 245 250 255  
91 Asp Glu Pro Leu Thr Lys Asp Asp Ile Pro Val Phe Leu Arg His Ala  
92 260 265 270  
95 Glu Leu Ile Ala Ser Thr Phe Val Asp Gln Cys Lys Thr Val Leu Lys  
96 275 280 285  
99 Leu Ala Ser Glu Glu Pro Pro Asp Asp Glu Glu Ala Leu Ala Thr Ile  
100 290 295 300  
103 Arg Leu Leu Asp Val Leu Cys Glu Met Thr Val Asn Thr Glu Leu Leu  
104 305 310 315 320  
107 Gly Tyr Leu Gln Val Phe Pro Gly Leu Leu Glu Arg Val Ile Asp Leu  
108 325 330 335  
111 Leu Arg Val Ile His Val Ala Gly Lys Glu Thr Thr Asn Ile Phe Ser  
112 340 345 350  
115 Asn Cys Gly Cys Val Arg Ala Glu Gly Asp Ile Ser Asn Val Ala Asn  
116 355 360 365  
119 Gly Phe Lys Ser His Leu Ile Arg Leu Ile Gly Asn Leu Cys Tyr Lys  
120 370 375 380  
123 Asn Lys Asp Asn Gln Asp Lys Val Asn Glu Leu Asp Gly Ile Pro Leu  
124 385 390 395 400  
127 Ile Leu Asp Asn Cys Asn Ile Ser Asp Ser Asn Pro Phe Leu Thr Gln  
128 405 410 415  
131 Trp Val Ile Tyr Ala Ile Arg Asn Leu Thr Glu Asp Asn Ser Gln Asn  
132 420 425 430  
135 Gln Asp Leu Ile Ala Lys Met Glu Glu Gln Gly Leu Ala Asp Ala Ser  
136 435 440 445  
139 Leu Leu Lys Lys Val Gly Phe Glu Val Glu Lys Lys Gly Glu Lys Leu  
140 450 455 460  
143 Ile Leu Lys Ser Thr Arg Asp Thr Pro Lys Pro  
144 465 470 475

147 <210> SEQ ID NO: 2

148 <211> LENGTH: 1971

149 <212> TYPE: DNA

150 <213> ORGANISM: HUMAN

152 <400> SEQUENCE: 2

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155 ggcggcggtt	agggtgtgt	aggcgaggc	ctcccccttc	ctcctcgcca	tcctactcct	120
157 ccctcctcg	catcctcccc	cttcgtcctc	ctgccttcc	tccttcctcg	caggctcgac	180
159 ccagctgtga	goggcaagat	ggcggcgccc	aggccgcccgc	ctgccaggct	gtcgggggtc	240
161 atgggtccgg	cgcccatcca	agacctggag	gccctgcgcg	cgctcacggc	gctttcaaa	300
163 gagcagcgg	accgagaaac	agcacccagg	actatcttc	aaagagtct	ggatatccta	360
165 aagaaatctt	ctcatgtgt	tgagcttgcc	tgccagagat	ccatcccaag	tggaaaacct	420
167 gcttccagtc	tgcaagttaat	aacagaatgc	ttcaggtgtc	ttcgcaatgc	ttgcataagag	480
169 tgttctgtga	accagaattc	aatcaggaac	ttggatacga	ttggtgttgc	tgttgatttg	540
171 attcttctgt	ttcgtgaact	gcgagtggaa	caggaatctc	tgttgacagc	ttttcgctgt	600
173 ggcctgcagt	ttttaggcaa	cattgcctca	cggaatgaag	atccccagtc	tattgtttgg	660
175 gtgcattgtt	tcccagaact	gttttgcct	tgcttaaattc	atccggacaa	aaaaattgtt	720

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Input Set : A:\PTO.AMC.txt  
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177	gcctactctt	caatgatttt	gttacatcc	cttaatcatg	aaagaatgaa	agaactggag	780
179	gagaacctca	atattcaat	tgtatgtcata	gatgcattacc	aaaaacatcc	tgaatcagaa	840
181	tggccgttct	tgattattac	agacctcttt	ctgaaaagcc	cggaaattgtt	acaagccatg	900
183	tttcccaaac	tgaacaatca	agaaaagagt	acactgttag	accttatgtat	agccaaagata	960
185	acgagtgtat	agccactcac	caaggatgac	atccctgtgt	tttgcggca	tgctgagttg	1020
187	attgcaagca	cctttgtgga	tcagtgcag	actgtgcata	agctggccctc	tgaggagcct	1080
189	cctgatgtat	aggaggcact	ggctacaattt	aggctctcg	acgtcctgtg	cgaatgact	1140
191	gtgaatactg	agctgtcg	ctatctgcag	gttttccctg	gcttgctgaa	aagagtattt	1200
193	gatctttgc	gggtgattca	tgtatgtgaa	aaagaaaacca	caaacatctt	cagtaatttgt	1260
195	ggttgcgtga	gagcagaagg	tgacatctcc	aatgtggcca	atggggtttaa	gtctcatctc	1320
197	attcgctctga	ttggaaatct	gtgttacaag	aataaaagata	accaagacaa	ggtaaatgag	1380
199	ctggatggta	tcccggtat	cctggacaac	tgcaacatca	gtgacagtaa	cccccctctg	1440
201	acccagtggg	tgatatatgc	catccgaaac	cttaccgaaag	acaacagccaa	aaaccaagat	1500
203	ttgattgcaa	agatggagga	acaggggctg	gcagatgcata	ccctacttaa	aaaagtgggt	1560
205	tttgaagttt	aaaagaaaagg	cgaaaagctg	atcctgaaat	ctactagaga	cacccttaag	1620
207	ccatgaatga	actacatcca	aatacctgaa	tttttggaaat	ctgtttcatg	gatttttcat	1680
209	cttctaccgt	atgtgaaattt	gcaagtgttt	gaagattttat	aagtacaat	ttgggaaacat	1740
211	acaaatctt	taggtatgt	agtttaacgt	gtataagcta	aaagtgaaag	taactgagtg	1800
213	ttctcttgc	tctttgcatt	aatgtactgt	tgtggtttgc	ctttgtcccc	ctggatagaa	1860
215	cgtgcattta	aagaatataat	tgtacttact	gtgacagcag	ataataaaacc	agtctcttgg	1920
217	aggcaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a	1971
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221	<211>	LENGTH:	21				
222	<212>	TYPE:	DNA				
223	<213>	ORGANISM:	PRIMERS				
225	<400>	SEQUENCE:	3				21
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230	<211>	LENGTH:	20				
231	<212>	TYPE:	DNA				
232	<213>	ORGANISM:	PRIMERS				
234	<400>	SEQUENCE:	4				20
235	gcctgggcaa	catagagaga					
238	<210>	SEQ ID NO:	5				
239	<211>	LENGTH:	197				
240	<212>	TYPE:	DNA				
241	<213>	ORGANISM:	HUMAN				
243	<400>	SEQUENCE:	5				
244	agaaaacaga	tggcagaatg	ataaaactcaa	tcatgttgc	aaatataattt	aatgtaaatg	60
246	gcttaaatat	ccaaactaaaa	gactactaga	atggattcta	ttctatttcta	ttctatttcta	120
248	ttcratttcta	ttctatttcta	ttctatttcta	ttctatttcta	ttcttttgc	gatgaagtct	180
250	ctctatgttgc	cccaggc					197
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255	<212>	TYPE:	DNA				
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,336A

DATE: 02/04/2002  
TIME: 20:43:14

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF3\02042002\I942336A.raw

263 <211> LENGTH: 20	
264 <212> TYPE: DNA	
265 <213> ORGANISM: PRIMERS	
267 <400> SEQUENCE: 7	20
268 tgccatctgt tttctatttg	
271 <210> SEQ ID NO: 8	
272 <211> LENGTH: 45	
273 <212> TYPE: DNA	
274 <213> ORGANISM: PROBES	
276 <400> SEQUENCE: 8	45
277 ctgttgtctt cagtgagatt tcgcacagca tacaccaccc actgc	
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281 <211> LENGTH: 45	
282 <212> TYPE: DNA	
283 <213> ORGANISM: PROBES	
285 <400> SEQUENCE: 9	45
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289 <210> SEQ ID NO: 10	
290 <211> LENGTH: 27	
291 <212> TYPE: DNA	
292 <213> ORGANISM: PRIMERS	
294 <400> SEQUENCE: 10	27
295 gaagacaat agaaaacaga tggcaga	
298 <210> SEQ ID NO: 11	
299 <211> LENGTH: 52	
300 <212> TYPE: DNA	
301 <213> ORGANISM: PRIMERS	
303 <400> SEQUENCE: 11	52
304 tacgcacccc agtttgagac ggaatagaat agaatagaat ag	
307 <210> SEQ ID NO: 12	
308 <211> LENGTH: 45	
309 <212> TYPE: DNA	
310 <213> ORGANISM: MOUSE	
312 <400> SEQUENCE: 12	45
313 ctgttgtctt cagtgagatt tcgcacagca tacaccaccc actgc	
316 <210> SEQ ID NO: 13	
317 <211> LENGTH: 45	
318 <212> TYPE: DNA	
319 <213> ORGANISM: MOUSE	
321 <400> SEQUENCE: 13	45
322 cactgcagag atgagaggtc cgtgagatgg aatctgaatg tgttc	

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/942,336A

DATE: 02/04/2002

TIME: 20:43:15

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF3\02042002\I942336A.raw



1645

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/942,336A

DATE: 01/24/2002  
 TIME: 10:01:15

Input Set : A:\P02039US1.txt  
 Output Set: N:\CRF3\01242002\I942336A.raw

3 <110> APPLICANT: Ashizawa, Tetsuo  
 4 Matsuura, Tohru  
 6 <120> TITLE OF INVENTION: DNA Test for SCA-10  
 8 <130> FILE REFERENCE: P02039US1/10023139  
 10 <140> CURRENT APPLICATION NUMBER: US 09/942,336A  
 11 <141> CURRENT FILING DATE: 2001-08-29  
 13 <150> PRIOR APPLICATION NUMBER: US 60/229,406  
 14 <151> PRIOR FILING DATE: 2000-08-31  
 16 <160> NUMBER OF SEQ ID NOS: 13  
 18 <170> SOFTWARE: PatentIn version 3.1

Does Not Comply  
 Corrected Diskette Needed

#### ERRORED SEQUENCES

316 <210> SEQ ID NO: 13  
 317 <211> LENGTH: 45  
 318 <212> TYPE: DNA  
 319 <213> ORGANISM: MOUSE  
 321 <400> SEQUENCE: 13  
 322 cactgcagat atgagaggc cgtgagatgg aatctgaatg tgttc  
 E--> 325 25106202 - 6 -

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/942,336A

DATE: 01/24/2002

TIME: 10:01:16

Input Set : A:\P02039US1.txt

Output Set: N:\CRF3\01242002\I942336A.raw

L:325 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:45 SEQ:13